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1 The selection recognition agent: instant access to relevant information and



operations

Milind S. Pandit, Sameer Kalbag

January 1997 Proceedings of the 2nd international conference on Intelligent user interfaces

Publisher: ACM Press

Full text available: pdf(639.34 KB) Additional Information: full citation, references, citings, index terms

Keywords: URL, Usenet news, agent, date, email address, geographic name, objectoriented interface, phone number, recognition, selection, web

Integrating geometrical and linguistic analysis for email signature block parsing



Hao Chen, Jianying Hu, Richard W. Sproat

October 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(192.29 KB)

Additional Information: full citation, abstract, references, citings, index

The signature block is a common structured component found in email messages. Accurate identification and analysis of signature blocks is important in many multimedia messaging and information retrieval applications such as email text-to-speech rendering, automatic construction of personal address databases, and interactive message retrieval. It is also a very challenging task, because signature blocks often appear in complex twodimensional layouts which are guided only by loose convention ...

Keywords: email signature block, finite-state transducer, geometrical analysis, linguistic analysis, text-to-speech rendering

Electronic colloquia: idea and practice

Jochen Bern, Christoph Meinel, Harald Sack

September 1998 Proceedings of the 16th annual international conference on Computer documentation

Publisher: ACM Press



Full text available: pdf(764.10 KB) Additional Information: full citation, references, citings, index terms

**Keywords:** electronic colloquia, electronic colloquium on computational complexity, electronic journals, electronic submission to conferences, information technology, symposium on theoretical aspects in computer science

4 Automating residence hall internet signups

John R. Miller, Tom Peterson

October 2000 Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future

Publisher: ACM Press

Full text available: pdf(176.34 KB) Additional Information: full citation, index terms

Keywords: HEAT, ResNet, automatic ticket generation

<sup>5</sup> Power to the people: end-user building of digital library collections

Ian H. Witten, David Bainbridge, Stefan J. Boddie

January 2001 Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries

**Publisher: ACM Press** 

Full text available: pdf(402.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

Naturally, digital library systems focus principally on the reader: the consumer of the material that constitutes the library. In contrast, this paper describes an interface that makes it easy for people to build their own library collections. Collections may be built and served locally from the user's own web server, or (given appropriate permissions) remotely on a shared digital library host. End users can easily build new collections styled after existing ones from material on the Web o ...

6 Direct combination

Simon Holland, Daniel Oppenheim

May 1999 Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit

Publisher: ACM Press

7

Full text available: pdf(1.01 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper reports on Direct Combination, a new user interaction technique. Direct Combination may be viewed variously as: a systematic extension to Direct Manipulation; a concise navigational framework to help users find the operations they need; and as a framework to make a greater range and variety of operations available to the user, without overburdening user or interface designer. While Direct Combination may be seen as an extension of Direct Manipulation, it may also be applied ...

**Keywords**: creating new operations, interaction design, interaction styles, interaction technique, interaction theory, n-tuples, navigating large operator spaces, novel interaction objects

At the Forge: CGI Programming

Reuven Lerner

January 1997 Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(24.10 KB) Additional Information: full citation, index terms

8 CLUES: dynamic personalized message filtering

Matthew Marx, Chris Schmandt

November 1996 Proceedings of the 1996 ACM conference on Computer supported cooperative work

**Publisher: ACM Press** 

Full text available: pdf(907.89 KB) Additional Information: full citation, references, citings, index terms

**Keywords**: electronic mail, filtering, messaging, personal information management, voice mail

9 The platform for privacy preferences

Joseph Reagle, Lorrie Faith Cranor

February 1999 Communications of the ACM, Volume 42 Issue 2

Publisher: ACM Press

Full text available: pdf(212.61 KB)
Additional Information: full citation, references, citings, index terms

10 Writing collaborative documentation over the network or it sure beats trudging to

another working session in a snowstorm!

Donna Raleigh

September 1991 Proceedings of the 19th annual ACM SIGUCCS conference on User services

**Publisher: ACM Press** 

Full text available: pdf(710.72 KB) Additional Information: full citation, index terms

11 <u>LiteMinutes: an Internet-based system for multimedia meeting minutes</u>

Patrick Chiu, John Boreczky, Andreas Girgensohn, Don Kimber
April 2001 Proceedings of the 10th international conference on World Wide Web

**Publisher: ACM Press** 

Full text available: pdf(1.68 MB) Additional Information: full citation, references, index terms

**Keywords**: hypermedia systems, meeting capture, meeting support systems, multimedia applications, note taking, video applications

12 The HCI bibliography project: a hypertext research perspective

Keith Instone

December 1993 ACM SIGWEB Newsletter, Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(271.58 KB) Additional Information: full citation, index terms



13 Converting from a paper to an on-line computing center newsletter



Matthew Wall

November 1993 Proceedings of the 21st annual ACM SIGUCCS conference on User services

Publisher: ACM Press

Full text available: pdf(759.86 KB) Additional Information: full citation, index terms

14 On-line publication of CS laboratories



Deborah L. Knox

March 1997 ACM SIGCSE Bulletin, Proceedings of the twenty-eighth SIGCSE technical symposium on Computer science education SIGCSE '97, Volume

29 Issue 1 **Publisher: ACM Press** 

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(622.61 KB)

Many computer science educators are actively developing laboratory materials in support of their courses because the lab activities provide a rich learning environment. Some instructors are hesitant to pursue this type of pedagogy because of the time commitment required or because of a lack of materials to use as a starting point. This paper describes the development of a repository of computer science laboratories to encourage development and use of labs. The project described is an on-line repo ...

15 Training agents to recognize text by example



Henry Lieberman, Bonnie A. Nardi, David Wright

April 1999 Proceedings of the third annual conference on Autonomous Agents

Publisher: ACM Press

Full text available: Doctor 156.08 KB) Additional Information: full citation, references, citings, index terms

16 The design, implementation and operation of an email pseudonym server



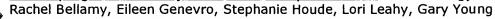
David Mazières, M. Frans Kaashoek

November 1998 Proceedings of the 5th ACM conference on Computer and communications security

Publisher: ACM Press

Full text available: pdf(1.29 MB) Additional Information: full citation, references, citings, index terms

17 Developing a community intranet: social practices and technology interventions





Publisher: ACM Press

18

Full text available: pdf(276.98 KB) Additional Information: full citation, references, index terms

**Keywords**: communication, intranet, learning community

Broadband application transport service and management



Zhenjun Zhu, Gerald Winters, Patrick Martin, Hussein T. Mouftah

November 1996 Proceedings of the 1996 conference of the Centre for Advanced Studies on Collaborative research

Publisher: IBM Press

Full text available: pdf(227.31 KB) Additional Information: full citation, abstract, references, index terms

Multimedia applications using broadband networking technologies (for example, Asynchronous Transfer Mode) often require services not provided by standard transport layer middleware, such as TCP or TP4. A broadband transport service must provide support for QoS (quality of service) control, multiparty control, synchronization, packet sequence reconstruction, and direct data-link access. Management of a broadband transport service also plays an important role. For example, management information c ...

19 USC: a universal stub compiler



conference on Communications architectures, protocols and applications SIGCOMM '94, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(1.23 MB)

Additional Information: full citation, abstract, references, citings, index terms

USC is a new stub compiler that generates stubs that perform many data conversion operations. USC is flexible and can be used in situations where previously only manual code generation was possible. USC generated code is up to 20 times faster than code generated by traditional argument marshaling schemes such as ASN.1 and Sun XDR. This paper presents the design of USC and a comprehensive set of experiments that compares USC performance with the best manually generated code and traditional s ...

20 <u>Technical Session: Crossing the bridge while you build it: a smooth migration to new</u>



servers and services

Wlliam R. Anderson, Larry Fields, Thelma Simons, Kathy Pribbenow, Christopher Jones October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User** services

Publisher: ACM Press

Full text available: pdf(153.78 KB) Additional Information: full citation, abstract, index terms

This paper accompanies a panel discussion by members of the computing support staff at Georgetown University, The University of Kansas, and The University of Oregon. Each school migrated its customers to a new e-mail system; some of the migrations included other services, such as web hosting and calendaring. Georgetown University migrated from a GroupWise mail and calendaring system and UNIX mail to Netscape (now iPlanet) Messaging Server and Steltor CorporateTime. Computing support staff learned ...

**Keywords**: Microsoft Exchange, Microsoft Outlook, calendar, e-mail, migration, new server, new service, panel, roll-out, software deployment

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Understanding e-mail addresses

Carol Gedney

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December 1990 ACM SIGUCCS Newsletter, Volume 20 Issue 4

Publisher: ACM Press

Full text available: pdf(646.30 KB) Additional Information: full citation, abstract

Electronic mail, with its gamut of benefits and advantages, can still cause some share of tribulation, especially when one tries to get a message to someone on a seemingly far-out network, or when that someone tries to send mail in return. This is the first in a series of articles designed to help the typical UIUCnet user understand the e-mail address environment.

Session 8: The format model: a theory of database organization



Richard Hull, Chee K. Yap

March 1982 Proceedings of the 1st ACM SIGACT-SIGMOD symposium on Principles of database systems

**Publisher: ACM Press** 

Full text available: pdf(698.58 KB) Additional Information: full citation, abstract, references, citings

A new theory of data representation involving "formats", which are based on three recurrent and prominent data-structuring concepts, is introduced. In a mathematically rigorous way, a notion of "equivalent" information capacity is defined and shown to be natural in a wide range of contexts. A normal form is introduced, and each equivalence class of formats is shown to have a unique representative in normal form. Finally, a natural way of comparing the information capacity of (non-equivalent) for ...

Designing a trace format for heap allocation events



Trishul Chilimbi, Richard Jones, Benjamin Zorn

October 2000 ACM SIGPLAN Notices, Proceedings of the 2nd international symposium on Memory management ISMM '00, Volume 36 Issue 1

**Publisher: ACM Press** 

Full text available: pdf(1.53 MB)

Additional Information: full citation, abstract, citings, index terms

Dynamic storage allocation continues to play an important role in the performance and correctness of systems ranging from user productivity software to high-performance servers. While algorithms for dynamic storage allocation have been studied for decades, much of the literature is based on measuring the performance of benchmark programs unrepresentative of many important allocation-intensive workloads. Furthermore, to date no standard has emerged or been proposed for publishing and exchangin ...

The Format Model: A Theory of database Organization

Richard Hull, Chee K. Yap

June 1984 Journal of the ACM (JACM), Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(1.09 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A mathematical theory for the study of data representation in databases is introduced and developed. The theory focuses on three data constructs (collection, composition and classification). "Formats" with semantically rich yet tractable structure are built recursively using these constructs. Using formats, we obtain several nontrivial results concerning notions of relative information capacity and restructuring of data sets. As such, the format model provides a new approach for the f ...

<sup>5</sup> 4.2BSD and 4.3BSD as examples of the UNIX system





John S. Quarterman, Abraham Silberschatz, James L. Peterson December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(4.07 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents an in-depth examination of the 4.2 Berkeley Software Distribution, Virtual VAX-11 Version (4.2BSD), which is a version of the UNIX Time-Sharing System. There are notes throughout on 4.3BSD, the forthcoming system from the University of California at Berkeley. We trace the historical development of the UNIX system from its conception in 1969 until today, and describe the design principles that have guided this development. We then present the internal data structures and ...

6 Hands-on practice in learning to use software; a comparison of exercise, exploration,





and combined formats

Susan Wiedenbeck, Patti L. Zila

June 1997 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(249.28 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

This research addresses two issues in the domain of computer training (1) whether learners are able to use exploration-based practice methods effectively to learn to use software and (2) whether some minimal computing background is necessary to be successful with minimalist training and exploration practice. An empirical study was carried out to compare exploration, exercises, and a combined format consisting of an exercise followed by exploration. Subjects of both high and low computer exp ...

Keywords: computer training, exercises, exploration, minimalist training, practice methods

7 A reusable architecture for federated\_client/server\_systems.



H. Gomaa, G. A. Farrukh

May 1999 Proceedings of the 1999 symposium on Software reusability

Publisher: ACM Press

Full text available: pdf(929.12 KB) Additional Information: full citation, references, citings, index terms

Keywords: client/server systems, families of systems, reuse, software architecture

A network architecture providing host migration transparency

Fumio Teraoka, Yasuhiko Yokore, Mario Tokoro

August 1991 ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols SIGCOMM '91,

Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(1.26 MB)

Additional Information: full citation, references, citings, index terms

<sup>9</sup> An analysis of user input to an X.500 white pages directory service

Paul Barker

April 1995 IEEE/ACM Transactions on Networking (TON), Volume 3 Issue 2

Publisher: IEEE Press

Full text available: pdf(1.68 MB) Additional Information: full citation, references, index terms, review

10 The Sigma network

K. Saito

August 1987 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology SIGCOMM '87, Volume 17 Issue 5

Publisher: ACM Press

Full text available: pdf(870.91 KB)

Additional Information: full citation, abstract, references, citings, index terms

The Sigma network is one of the most important element of the Sigma system which is designed to improve productivity of a software. The Sigma network has been developed in order to establish a infrastructure which acts as development environment provided by logically integrated Sigma workstations spread over various companies and inside the companies which approve the concept of the Sigma system. It is also included in the scope of its development to enrich application programs m ...

11 Development of the Domain Name System

Paul V. Mockapetris, Kevin J. Dunlap

January 1995 ACM SIGCOMM Computer Communication Review, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(983.50 KB) Additional Information: full citation, abstract, citings, index terms

The Domain Name System (DNS) provides name service for the DARPA Internet. It is one of the largest name services in operation today, serves a highly diverse community of hosts, users, and networks, and uses a unique combination of hierarchies, caching, and datagram access. This paper examines the ideas behind the initial design of the DNS in 1983, discusses the evolution of these ideas into the current implementations and usages, notes conspicuous surprises, successes and shortcomings, and attem ...

12 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

February 1980 ACM SIGART Bulletin, Issue 70

**Publisher: ACM Press** 

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract



In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

13 Development of the domain name system

P. Mockapetris, K. J. Dunlap

August 1988 ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols SIGCOMM **'88**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: pdf(1.24 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The Domain Name System (DNS) provides name service for the DARPA Internet. It is one of the largest name services in operation today, serves a highly diverse community of hosts, users, and networks, and uses a unique combination of hierarchies, caching, and datagram access. This paper examines the ideas behind the initial design of the DNS in 1983, discusses the evolution of these ideas into the current implementations and usages, notes conspicuous surprises, successes and shortc ...

14 Sharing and protection in a single-address-space operating system

Jeffrey S. Chase, Henry M. Levy, Michael J. Feeley, Edward D. Lazowska

November 1994 ACM Transactions on Computer Systems (TOCS), Volume 12 Issue 4

Publisher: ACM Press

Full text available: pdf(2.87 MB)

Additional Information: full citation, abstract, references, citings, index

This article explores memory sharing and protection support in Opal, a single-addressspace operating system designed for wide-address (64-bit) architectures. Opal threads execute within protection domains in a single shared virtual address space. Sharing is simplified, because addresses are context independent. There is no loss of protection, because addressability and access are independent; the right to access a segment is determined by the protection domain in which a thread executes. T ...

Keywords: 64-bit architectures, capability-based systems, microkernel operating systems, object-oriented database systems, persistent storage, protection, singleaddress-space operating systems, wide-address architectures

15 IP next generation overview

Robert M. Hinden

June 1996 Communications of the ACM, Volume 39 Issue 6

Publisher: ACM Press

Full text available: pdf(610.92 KB) Additional Information: full citation, references, index terms, review

16 Special issue on wireless extensions to the internet: Interworking internet telephony

and wireless telecommunications networks

Jonathan Lennox, Kazutaka Murakami, Mehmet Karaul, Thomas F. La Porta October 2001 ACM SIGCOMM Computer Communication Review, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references



Internet telephony and mobile telephony are both growing very rapidly. Directly interworking the two presents significant advantages over connecting them through an intermediate PSTN link. We propose three novel schemes for the most complex aspect of the interworking: call delivery from an Internet telephony (SIP) terminal to a mobile telephony (UMTS) terminal. We then evaluate the proposals both qualitatively and quantitatively. However, existing equipment may not support packet interfaces n ...

17 Sendmail+IDA: The easy way to make a sendmail.cf file

Vince Skahan

June 1994 Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(26.18 KB) Additional Information: full citation, index terms

18 Passive measurements: Characterizing large DNS traces using graphs

Charles D. Cranor, Emden Gansner, Balachander Krishnamurthy, Oliver Spatscheck November 2001 Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement

Publisher: ACM Press

Full text available: pdf(2.62 MB)

Additional Information: full citation, abstract, references, citings, index terms

The increasing deployment of overlay networks that rely on DNS tricks has led to added interest in examining DNS traffic. In this paper we report on a characterization of DNS traffic gathered over a period of several weeks at Internet Gateway Routers (IGRs) in the AT&T Common Backbone. The characterization is carried out using several novel techniques to identify clients, local DNS servers, and authoritative DNS servers. Our techniques include passive and active measurements, graph-based analysi ...

19 A storage and access manager for ill-structured data

Jeffrey Kottemann, Michael Gordon, Jack Stott

August 1991 Communications of the ACM, Volume 34 Issue 8

Publisher: ACM Press

Full text available: pdf(2.04 MB)

Additional Information: full citation, abstract, references, index terms, review

Database management systems are powerful tools for processing large volumes of structured, or normalized, data. Much of the data to be stored in computer systems, however, differs from normalized data in both its logical uses and the storage structure required for its effective management. For instance, Van Rijsbergen (1979) distinguishes database retrieval from information retrieval (IR)—the retrieval of references to text—by C ...

20 A public-key based secure mobile IP

John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent

October 1999 Wireless Networks, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(255.65 KB) Additional Information: full citation, references, citings, index terms

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Understanding e-mail addresses



Carol Gedney

December 1990 ACM SIGUCCS Newsletter, Volume 20 Issue 4

**Publisher: ACM Press** 

Full text available: pdf(646.30 KB) Additional Information: full citation, abstract

Electronic mail, with its gamut of benefits and advantages, can still cause some share of tribulation, especially when one tries to get a message to someone on a seemingly far-out network, or when that someone tries to send mail in return. This is the first in a series of articles designed to help the typical UIUCnet user understand the e-mail address environment.

2 Automatic segmentation of text into structured records



Vinayak Borkar, Kaustubh Deshmukh, Sunita Sarawagi

May 2001 ACM SIGMOD Record, Proceedings of the 2001 ACM SIGMOD international conference on Management of data SIGMOD '01, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(331.70 KB)

Additional Information: full citation, abstract, references, citings, index

In this paper we present a method for automatically segmenting unformatted text records into structured elements. Several useful data sources today are human-generated as continuous text whereas convenient usage requires the data to be organized as structured records. A prime motivation is the warehouse address cleaning problem of transforming dirty addresses stored in large corporate databases as a single text field into subfields like "City" and "Street". Existing to ...

3 Information access and retrieval (IAR): Rule-based word clustering for document



metadata extraction

Hui Han, Eren Manavoglu, Hongyuan Zha, Kostas Tsioutsiouliklis, C. Lee Giles, Xiangmin

March 2005 Proceedings of the 2005 ACM symposium on Applied computing SAC '05 Publisher: ACM Press

Full text available: pdf(142.27 KB) Additional Information: full citation, abstract, references, index terms

Text classification is still an important problem for unlabeled text; CiteSeer, a computer science document search engine, uses automatic text classification methods for document indexing. Text classification uses a document's original text words as the primary feature

representation. However, such representation usually comes with high dimensionality and feature sparseness. Word clustering is an effective approach to reduce feature dimensionality and feature sparseness, and improve text classif ...

**Keywords:** feature dimensionality reduction, word clustering

A storage and access manager for ill-structured data

Jeffrey Kottemann, Michael Gordon, Jack Stott

August 1991 Communications of the ACM, Volume 34 Issue 8

Publisher: ACM Press

Full text available: pdf(2.04 MB)

Additional Information: full citation, abstract, references, index terms, review

Database management systems are powerful tools for processing large volumes of structured, or normalized, data. Much of the data to be stored in computer systems, however, differs from normalized data in both its logical uses and the storage structure required for its effective management. For instance, Van Rijsbergen (1979) distinguishes database retrieval from information retrieval (IR)—the retrieval of references to text—by c ...

5 PYTHIA-II: a knowledge/database system for managing performance data and



recommending scientific software Elias N. Houstis, Ann C. Catlin, John R. Rice, Vassilios S. Verykios, Naren Ramakrishnan, Catherine E. Houstis

June 2000 ACM Transactions on Mathematical Software (TOMS), Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(796.18 KB)

Additional Information: full citation, abstract, references, citings, index terms

Often scientists need to locate appropriate software for their problems and then select from among many alternatives. We have previously proposed an approach for dealing with this task by processing performance data of the targeted software. This approach has been tested using a customized implementation referred to as PYTHIA. This experience made us realize the complexity of the algorithmic discovery of knowledge from performance data and of the management of these data together with the d ...

Keywords: data mining, inductive logic programming, knowledge discovery in databases, knowledge-based systems, performance evaluation, recommender systems, scientific software

Packet classification in large ISPs: design and evaluation of decision tree classifiers



Edith Cohen, Carsten Lund

June 2005 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '05, Volume 33 Issue 1

**Publisher: ACM Press** 

Full text available: pdf(195.66 KB) Additional Information: full citation, abstract, references, index terms

Packet classification, although extensively studied, is an evolving problem. Growing and changing needs necessitate the use of larger filters with more complex rules. The increased complexity and size pose implementation challenges on current hardware solutions and drive the development of software classifiers, in particular, decision-tree based classifiers. Important performance measures for these classifiers are time and memory due to required high throughput and use of limited fast memory. We ...

**Keywords**: access control lists, decision trees, packet filtering, routing

Researches in network development of JUNET



J. Murai, A. Kato

August 1987 ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology SIGCOMM '87, Volume 17 Issue 5

**Publisher: ACM Press** 

Full text available: pdf(1.10 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

JUNET was developed in order to provide a testing environment for studies of computer networking and distributed processing by connecting a large number of computers and by providing actual services for the users. Research interests in development of the network have been focused on resource name managing, Japanese character handling and communication technologies. For the name managements, the hierarchical domain concept is employed to construct a name space for the network, and ...

8 Virtual enterprise access control requirements



M. Coetzee, Jan H. P. Eloff

September 2003 Proceedings of the 2003 annual research conference of the South

African institute of computer scientists and information technologists on Enablement through technology SAICSIT '03

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available: pdf(126.63 KB) Additional Information: full citation, abstract, references, index terms

Current developments in IT point towards the formation of loosely coupled enterprises, often referred to as virtual enterprises. These enterprises require both secure and flexible collaboration between unrelated information systems. Web services technology can be used as an ideal platform for realising virtual enterprises throughh their ease of integration, flexibility, and support of XML vocabularies. To ensure the successful implementation of Web services within virtual enterprises, new approa ...

**Keywords:** B2B, SOAP, XML, access control, design, federation, management, roles, security, standardization, trust, virtual enterprises, web services

<sup>9</sup> A survey and analysis of Electronic Healthcare Record standards





Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: pdf(844.11 KB) Additional Information: full citation, abstract, references, index terms

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

10 Research session: integration and mapping #1: Light-weight domain-based form assistant: querying web databases on the fly Zhen Zhang, Bin He, Kevin Chen-Chuan Chang



# August 2005 Proceedings of the 31st international conference on Very large data bases VLDB '05

**Publisher: VLDB Endowment** 

Full text available: pdf(311.86 KB) Additional Information: full citation, abstract, references, index terms

The Web has been rapidly "deepened" by myriad searchable databases online, where data are hidden behind query forms. Helping users query alternative "deep Web" sources in the same domain (e.g., Books, Airfares) is an important task with broad applications. As a core component of those applications, dynamic query translation (i.e., translating a user's query across dynamically selected sources) has not been extensively explored. While existing works focus on isolated subproblems (

#### 11 Sendmail+IDA: The easy way to make a sendmail.cf file

Vince Skahan

June 1994 Linux Journal

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(26.18 KB) Additional Information: full citation, index terms

### 12 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith

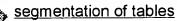
February 1980 ACM SIGART Bulletin, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

#### 13 Research sessions: Web, XML and IR: Using the structure of Web sites for automatic



Kristina Lerman, Lise Getoor, Steven Minton, Craig Knoblock

June 2004 Proceedings of the 2004 ACM SIGMOD international conference on Management of data

**Publisher: ACM Press** 

Full text available: Pdf(335.49 KB) Additional Information: full citation, abstract, references

Many Web sites, especially those that dynamically generate HTML pages to display the results of a user's query, present information in the form of list or tables. Current tools that allow applications to programmatically extract this information rely heavily on user input, often in the form of labeled extracted records. The sheer size and rate of growth of the Web make any solution that relies primarily on user input is infeasible in the long term. Fortunately, many Web sites contain much explic ...

#### 14 An electronic design interchange format

John D. Crawford

June 1984 Proceedings of the 21st conference on Design automation

Publisher: IEEE Press

Full text available: pdf(295.13 KB)

Additional Information: full citation, abstract, references, citings, index terms

The large variety of CAD/CAE tools/systems and foundry services now available to the electronic engineer have brought to a head the long-standing need for a standard format for the exchange of design information. Existing formats have not served this need for a





variety of reasons. This paper describes an Electronic Design Interchange Format (EDIF) that has arisen from collaboration of the principals involved in four preceding efforts.

15 MIETTA — a framework for uniform and multilingual access to structured database



and Web information

Feiyu Xu, Klaus Netter, Holger Stenzhorn

November 2000 Proceedings of the fifth international workshop on on Information retrieval with Asian languages

**Publisher: ACM Press** 

Full text available: pdf(732.44 KB) Additional Information: full citation, abstract, references, citings

We describe a WWW-based information system called MIETTA, which allows uniform and multilingual access to heterogenous data sources in the tourism domain. The design of the search engine is based on a new crosslingual framework. The framework integrates a crosslingual retrieval strategy with a strategy using natural language techniques: information extraction and multilingual generation. The combination of information extraction and multilingual generation enables on the one hand, multilingua ...

**Keywords:** Web documents, information extraction and multilingual generation, machine translation, multilingual and crosslingual information retrieval, structured database information

<sup>16</sup> Balancing cooperation and risk in intrusion detection



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Deborah Frincke

February 2000 ACM Transactions on Information and System Security (TISSEC), Volume

Publisher: ACM Press

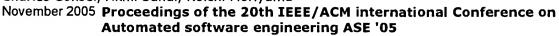
Full text available: pdf(236.44 KB)

Additional Information: full citation, abstract, references, citings, index

Early systems for networked intrusion detection (or, more generally, intrusion or misuse management) required either a centralized architecture or a centralized decision-making point, even when the data gathering was distributed. More recently, researchers have developed far more decentralized intrusion detection systems using a variety of techniques. Such systems often rely upon data sharing between sites which do not have a common administrator and therefore cooperation will be required i ...

Keywords: access control models, authorization mechanisms, collaborative systems

Code generation: Clearwater: extensible, flexible, modular code generation
Galen S. Swint, Calton Pu, Gueyoung Jung, Wenchang Yan, Younggyun Koh, Qinyi Wu,
Charles Consel, Akhil Sahai, Koichi Moriyama



**Publisher:** ACM Press

Full text available: pdf(236.62 KB) Additional Information: full citation, abstract, references, index terms

Distributed applications typically interact with a number of heterogeneous and autonomous components that evolve independently. Methodical development of such applications can benefit from approaches based on domain-specific languages (DSLs). However, the evolution and customization of heterogeneous components introduces significant challenges to accommodating the syntax and semantics of a DSL in addition to the heterogeneous platforms on which they must run. In this paper, we address the challe ...

**Keywords**: AXpect, DSL, ISG, clearwater, code generation, infopipes

18 Managing expert systems projects: factors critical for successful implementation



Dave Dibble, Robert P Bostrom

March 1987 Proceedings of the conference on The 1987 ACM SIGBDP-SIGCPR Conference

Publisher: ACM Press

Full text available: pdf(3.00 MB)

Additional Information: full citation, abstract, references, citings, index terms

Over the last decade, the Artificial Intelligence research community has successfully created a number of "expert" systems capable of solving problems in limited domains. Noting the demonstrated feasibility of such an approach to problem solving, a number of firms have moved toward incorporating this technology into their portfolio of information system tools. The scarcity and geographic limitations of human expertise, coupled with the tirelessness of machines, are the motivatio ...

19 Adaptive web information extraction



Dawn G. Gregg, Steven Walczak

May 2006 Communications of the ACM, Volume 49 Issue 5

Publisher: ACM Press

Full text available: pdf(496.95 KB) 1 html(28.77 KB)

Additional Information: full citation, abstract, references, index terms

The Amorphic system works to extract Web information for use in business intelligence applications.

20 Specification and verification of network managers for large internets



D. L. Cohrs, B. P. Miller

August 1989 ACM SIGCOMM Computer Communication Review, Symposium proceedings on Communications architectures & protocols SIGCOMM '89, Volume 19 Issue 4

Publisher: ACM Press

Full text available: pdf(1.56 MB)

Additional Information: full citation, abstract, references, citings, index

Large internet environments are increasing the difficulty of network management. Integrating increasing numbers of autonomous subnetworks (each with an increasing number of hosts) makes it more difficult to determine if the network managers of the subnetworks will interoperate correctly. We propose a high level, formal specification language, NMSL, as an aid in solving this problem. NMSL has two aspects of operation, a descriptive aspect and a prescriptive aspect. In its descriptive aspect, ...

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